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CENTRAL INTELLIGENCE AGENCY

REPORT

INFORMATION REPORT ... AND.

COUNTRY East Germany DATE DISTR 11 Term mary 1955 Transistor Development at VEB Wark fuer Bauelemento der Wachrichtentechnik "Carl SUBJECT NO OF PAGES, 25X1 von Dasietskin, Teltou PLACE NO OF ENCLS ACQUIRED CUSTED BELOW DATE OF SUPPLEMENT TO INFO. 25X1 REPORT NO. 25X1 tris loculient contains informátion apr po the united states, within the meanin THIS IS UNEVALUATED INFORMATION

Development work conducted at the VEB Werk fuer Bauelemente der Nachrichtentechnik "Carl von Ossietzky" (formerly the Dralowid plant) in July 1954 included:

a. Development of transisters which provided done at the HF to the Telegraphy of Tales and the HF to the Telegraphy of Tales and the Tales and transferred to Dr. Matthies Felter's laboratory at the Pelouid Mass. Dr. Felter developed transistors on a germanium basis with an admixture of indium. This development work was scheduled to be impleted by the and of October 1954. Technical specifications for this type of transistor included:

Voltage 50 to 100 V

Fower output: up to 20 mW

Input

Level

Eingang Pagel: 200 mV

Limit frequency: 1 to 3 Mc.

Amplification: 50 to 100-tipe.

Sensitivity: 50 to 60 do to 1 Tesistance in relation to noise resistance measured at the equivalent input resistance)

- b. Development of two types of transistors for oscillators and amplifiers. It was also intended further to develop these transistors for frequencies from 5 to 10 Mc.
- c. Development of germanium diodes in which the inverse voltage and the pass voltage (Durchlass-Spannung) were to be at a ratio of 1:1,000 at a current intensity of 10 mA. It is intended to develop two types of diodes, one for 2 and one for 5 mA. The inverse voltage is 120 V.
- d. Experiments to manufacture resistances which have a boron-treated carbon layer. These resistances are believed to be much more efficient and much easier to manufacture. Moreover, they are much more sensitive to hundred the contractive confliction is 1000. Capitlar resistances with up to 100 kilo-olm designed as impulse resistances with a dielectric ettength to handle 20 kV were also developed.

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